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## Freeform Search

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Database: US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

Term: L12 and (protective shield or protective sheath  
or protective casing or protective housing or  
protective jacket or protective sleeve or ▲  
▼

Display: 10 Documents in Display Format: - Starting with Number 1

Generate: ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image

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Search

Clear

Interrupt

## Search History

DATE: Friday, June 17, 2005 [Printable Copy](#) [Create Case](#)SetName Queryside by  
side

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L14 L12 and (protective shield or protective sheath or protective casing or protective housing or protective jacket or protective sleeve or protective cover\$3 or protective insulat\$3)L13 inside pipe scrub\$4 or interior pipe scrub\$4 or internal pipe scrub\$4L12 L11 and (scrap\$3 or scrub\$4 or clean\$3)L11 (inside pipe or interior pipe or internal pipe) same (sensor or detector or probe or transducer or meL10 inside pipe scrub\$3 or interior pipe scrub\$3 or internal pipe scrub\$3L9 inside pipe scrub\$3 or interior pipe scrub\$3 or internal pipe scrubb\$3L8 inside pipe scrap\$3 or interior pipe scrap\$3 or internal pipe scrap\$3L7 inside pipe cleaning or interior pipe cleaning or internal pipe cleaning

DB=PGPB,USPT,USOC,EPAB,JPAB; PLUR=YES; OP=ADJ

L6 L5 and (shield or sheath or cas\$3 or hous\$3 or jacket or sleeve)L5 L4 and (sensor or detector or probe or transducer)L4 L3 and (pipe or tub43 or conduit)L3 L2 and (scrap\$4 or pig or scrub\$4 or clean\$3)

(374/141,147,148,208;134/6,8,1,166,167;15/246,249.2,256.5,104.3,104.05,93.1,97.1,104.063,105

L2 [CCLS]

*DB=USPT; PLUR=YES; OP=ADJ*

L1 6789938.pn.

END OF SEARCH HISTORY